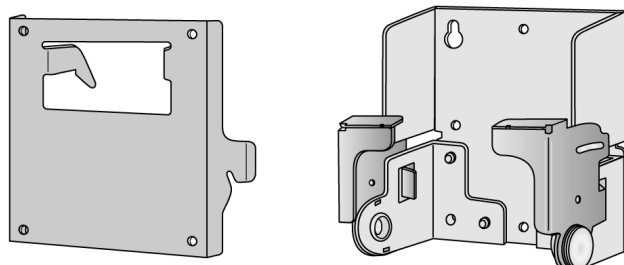


Service Manual

LCD TV wall-hanging bracket

TY-WK23LR2W



Specifications

Dimensions (W × H × D)

main body

wall-hanging bracket A

wall-hanging bracket B

overall assembly

with packing

4 $\frac{17}{32}$ " (115.4 mm) × 4 $\frac{17}{32}$ " (115 mm) × 1 $\frac{41}{64}$ " (41.8 mm)

4 $\frac{3}{8}$ " (111.2 mm) × 4 $\frac{17}{32}$ " (115 mm) × 2 $\frac{21}{64}$ " (59.1 mm)

4 $\frac{61}{64}$ " (126 mm) × 4 $\frac{17}{32}$ " (115 mm) × 2 $\frac{21}{64}$ " (59 mm)

5 $\frac{5}{8}$ " (143 mm) × 5 $\frac{5}{16}$ " (135 mm) × 6 $\frac{1}{2}$ " (165 mm)

Mass (weight)

main body

with packing

1.5lb (0.70 kg)

2.2lb (1.01 kg)

Material

Melted Zn-Al-Mg alloy plating steel board (SPCC-Cold pressure steel board)

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

	Page		Page
1 Safety precautions	2	2.5. The LCD TV removal	8
2 Installation procedure	3	3 Replacement Parts List	9
2.1. Precautions for installation construction	3	3.1. Parts List	9
2.2. [Installation procedure 1] Wall-hanging bracket B (wall side)	4	3.2. Packing summary	10
2.3. [Installation procedure 2] Wall-hanging bracket A (main unit side)	5	4 External dimensions drawing	11
2.4. [Installation procedure 3] Main unit installation on Wall-hanging bracket B	6	4.1. Wall-hanging bracket A (Main unit side)	11
		4.2. Wall-hanging bracket B (Wall side)	11
		4.3. Overall assembly	11

1 Safety precautions

To prevent injury to the user and others and to prevent damage to property, directions that must be followed are explained as shown below.

- The following displays categorize the degree of danger when mishandled.



WARNING

Possibility of serious injury and even death when mishandled.



CAUTION

Possibility of injury or damage to surrounding property.

- Directions that must be followed are explained using the following symbols.
(Examples of graphical symbols are shown below.)



This symbol indicates that the direction must be followed with caution.



This symbol indicates that the direction is prohibited.



This symbol indicates that the direction must always be followed.



WARNING

- Installation to be performed by certified personnel only.



Inadequate installation may cause the LCD TV to fall, resulting in bodily injury.

Prohibited

- Do not install where tolerance is weak.



If the tolerance of the mounting location is weak, the LCD TV may fall resulting in bodily injury.

Prohibited

- Be aware of safety factors concerning the mounting strength.



Insufficient strength may cause the LCD TV to fall, resulting in bodily injury.

- Do not hang from the LCD TV, place stepsladder, etc.



The LCD TV may become damaged or it may fall, causing bodily injury.

Prohibited



CAUTION

- Do not install in humid or dusty areas, or where the LCD TV may be exposed to lampblack, steam or heat.



This may affect the LCD TV, and may cause fire or electric shock.

Prohibited

- At least two persons should perform installation and removal of the LCD TV unit.



Dropping the LCD TV may result in injury.

- Always remove the wall-hanging bracket when removing the LCD TV.



Injury may result when accidentally hitting the projected parts.

- Take caution when removing for repairs, etc.

- Do not install with the LCD TV facing downward, on its side, or upside down.



Heat may build up within the LCD TV, causing fire as a result.

Prohibited

- Ensure there is a space of at least 100 mm (3 15/16 inches) at the top and bottom of the LCD TV, and at least 300 mm (11 13/16 inches) clearance at the sides and 40 mm (1 37/64 inches) at the back.



Air intake and outlet holes are located on the rear of the LCD TV. Blocking these holes may result in fire.

- Make sure there is sufficient air circulation so that the ambient temperature does not exceed 35°C



Heat may build up within the LCD TV, causing fire as a result.

2 Installation procedure

2.1. Precautions for installation construction

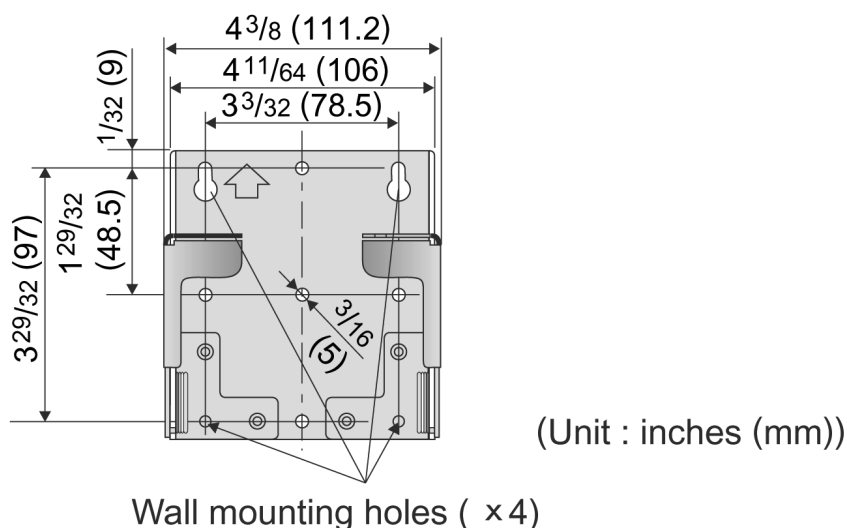
- The wall-hanging bracket is for installing the LCD TV on a vertical wall for viewing. Do not use it for installing in any other place than on a vertical wall.
- The stand must be removed from the LCD TV before the wall-hanging bracket may be mounted. Before starting work, be sure to turn the power off and unplug the power supply plug.
- Install using techniques that suit the structure and materials of the installation location.
- If screws are used to attach bracket B to a wall, obtain commercially available 4 mm (nominal) screws or similar that are appropriate for the wall material.
- Allow sufficient strength for safety.
Check the mass (weight) of the LCD TV to be fitted to the wall-hanging bracket by referring to the Manual for the LCD TV unit.
When mounting on a wall, perform work so that it can withstand the weight of the LCD TV and so that the bracket will not come loose from vibration, etc.
- Reinforce the bracket if the mounting section strength is insufficient.
The LCD TV may fall if the installation is insufficient or if the screws are loose.
- Check to make sure there are no electrical wires within the wall.
- Use the supplied cable clampers to fix cables. Never fix cables using staples.
- To guarantee LCD TV performance and prevent problems, do not install in locations such as the following:
 - Near sprinklers or heat / smoke detectors
 - Where there is a risk of vibration or impact
 - Near high voltage wires or motors
 - Near sources of magnetism, heat, water vapor or soot
 - Exposed to air from heating equipment
- Ensure air can flow around the LCD TV so that the temperature does not exceed 35 °C.
Otherwise malfunction may occur due to the build-up of heat inside the LCD TV.
- About the installation location
Be sure to explain the following points to the customer:
 - The LCD TV is best viewed directly from the front.
 - Avoid areas where the florescent lighting reflects on the LCD TV surface. Although vertical angles can be adjusted, the hanging bracket does not move horizontally
 - For the main power supply plug, use an outlet that can be easily reached by hand. Also make sure that the television is at a height where the power supply switch can be easily operated, and that it is at a distance within the remote control range (approximately 6 m from the front).
 - For the installation height, do not exceed the range of the connection cords (antenna, etc.).
 - Install where there are no objects within 20 cm below the LCD TV.
 - Check the installation height, depth, wall structure, etc., before performing installation work.
 - Do not mount the LCD TV directly below ceiling lights (such as spot lights, flood lights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.

2.2. [Installation procedure 1] Wall-hanging bracket B (wall side)

1 Check the strength of the intended installation position

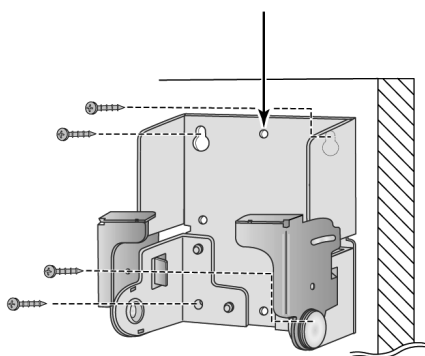
Check the mass (weight) of the LCD TV to be fitted to the wall-hanging bracket by referring to the Manual for the LCD TV unit.

Referring to the dimension drawing below, check the wall strength at the 4 mounting positions. If strength is insufficient, provide reinforcement.



2 Mounting wall-hanging bracket B

Wall-hanging bracket B



- ① Using a level, determine the installation position where the mounting is horizontal, and mark the wall.
- ② Fasten wall-hanging bracket B with four commercially available 4 mm (nominal) screws or similar.

- If bolts or nuts must be embedded in the wall beforehand, such as with a concrete wall, determine the hole positions by aligning with the actual wall-hanging bracket B, or by referring to the dimension drawing, and embed anchors of approximately 4 mm diameter.

Note:

If screws are used to attach bracket B to a wall, obtain commercially available 4 mm (nominal) screws or similar that are appropriate for the wall material.

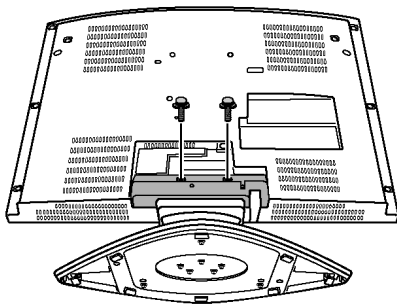
2.3. [Installation procedure 2] Wall-hanging bracket A (main unit side)

3 Preparation of the LCD TV

**For the TC-23LX60 / TC-23LX60C / TX-17LXD6 / TX-20LA6F
TX-20LA6P / TX-23LA6G / TX-23LA6A / TX-23LA6M
TX-23LA6X / TX-23LXD60 / TX-23LX60F / TX-23LX60P
TX-23LX60D / TX-23LX60A / TX-23LX60M / TX-23LX60X**

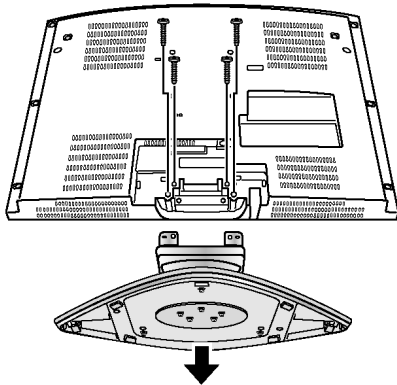
Before starting the mounting procedure, remove the connection cable attached to the LCD TV. Be sure to perform mounting correctly and securely.

1 Remove the stand cover.



- ① Remove the AC cord from the clamper attached to the stand cover.
- ② Remove the 2 screws.
- ③ Slowly pull off the stand cover in the upward direction.

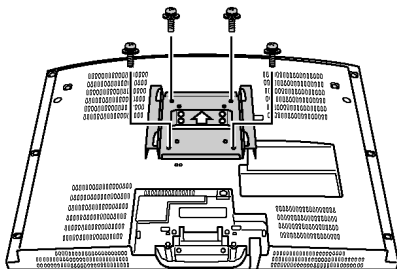
2 Remove the TV stand.



- ① Remove the 4 screws.
- ② Remove the TV stand.

3 Mount wall-hanging bracket A.

Align the holes in wall-hanging bracket A with the screw holes in the LCD TV.



- ① Securely fasten with the 4 bracket mounting screws A (M4 × 12).

Note:

Store the stand, stand cover and screws carefully in case they are required in future.

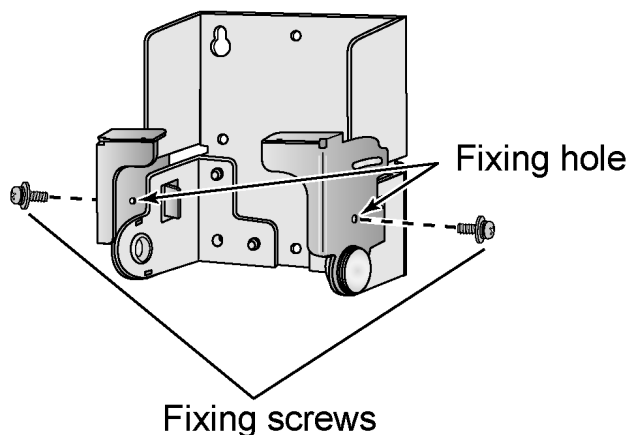
When connecting cables to the LCD TV, certain cables may touch the wall. Avoid putting any weight on the cables when they touch the wall.

2.4. [Installation procedure 3] Main unit installation on Wall-hanging bracket B

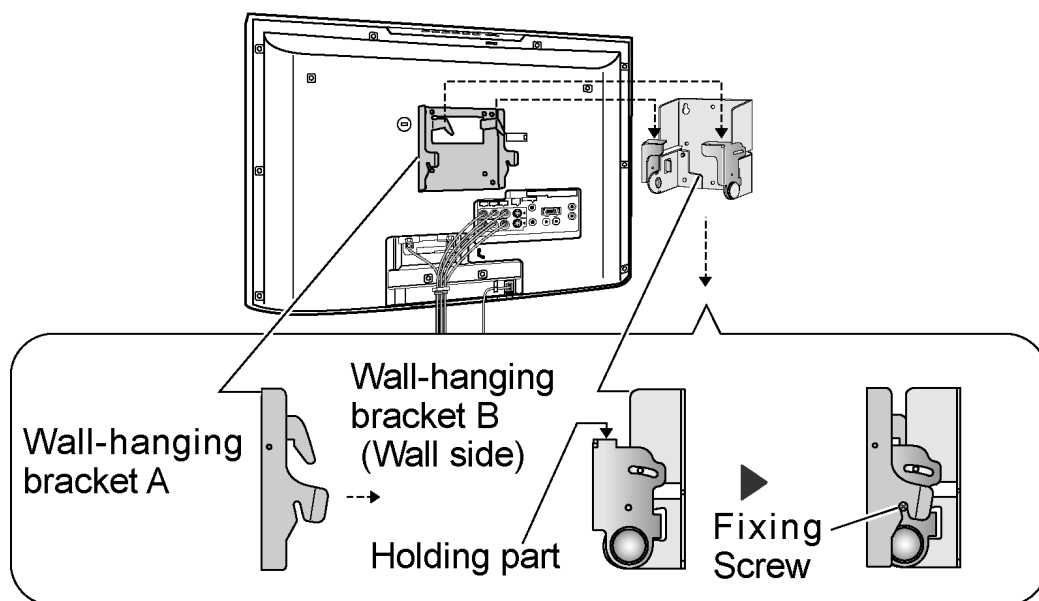
4 Attaching the LCD TV to the wall-hanging bracket B (wall side)

1 Installing on the wall.

- ① Put the fixing screws on the fixing holes located on wall-hanging brackets B (wall side).



- ② Hang the LCD TV on wall-hanging bracket B.

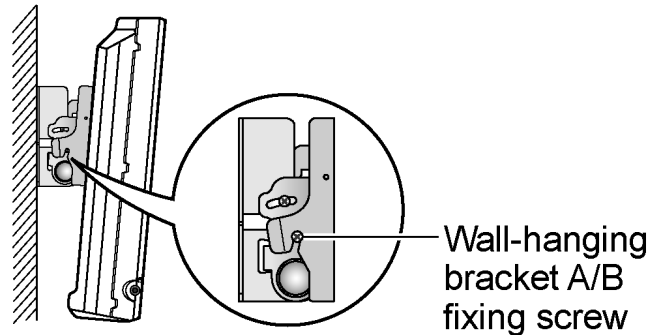


Caution

Check that the LCD is securely hanging on the supports of wall-hanging bracket B (wall side) and the fixing screws, and then remove your hands from the LCD TV unit. Installation of the television on the wall should be performed by at least two people.

2 Wall-hanging bracket fastening.

To prevent the unit from falling, securely fasten the two wall-hanging bracket A and B fixing screws from the right and left sides. If the fixing holes of the brackets do not align, installation is incorrect. Check the installation again and fix so that screw holes are aligned.



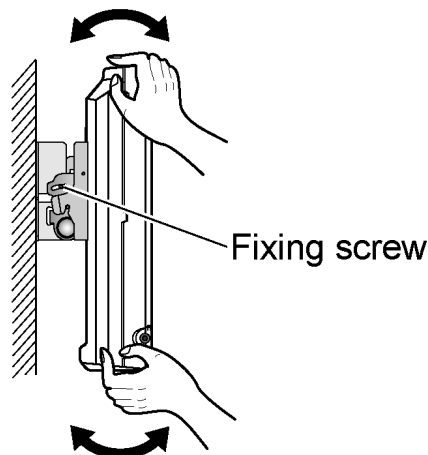
Caution

Be sure to mount the angle fastening screws on the left and right to prevent the LCD TV from falling.

3 Install at the desired angle.

Position the LCD TV wall-hanging bracket at the desired angle from 5° upsweep to 10° downsweep.

Set the angle by adjusting the notches of wall-hanging bracket B (wall side) and the concave section of wall-hanging bracket A (main unit side) to the desired angle.



4 Fasten with the angle fixing screws

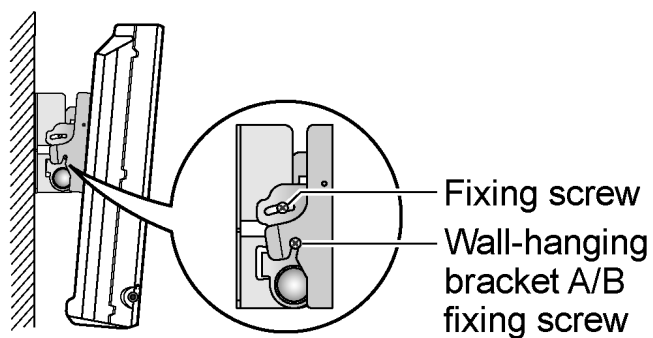
After adjusting to the desired angle, fasten with the angle fixing screws.

Caution

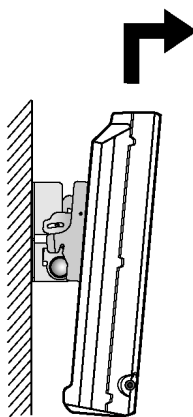
- To change the angle, loosen the angle fixing screws.
- Do not apply force to the bracket in an attempt to make it exceed the setting angle of 5° upsweep to 10° downsweep. Damage to or malfunction of the LCD TV may result.

2.5. The LCD TV removal

Remove the angle fixing screws.



- ② Loosen the two wall-hanging bracket A and B fixing screws fitted to the right and left sides of the wall-hanging bracket.
- ③ While lifting the LCD TV, pull it away from the wall and remove.

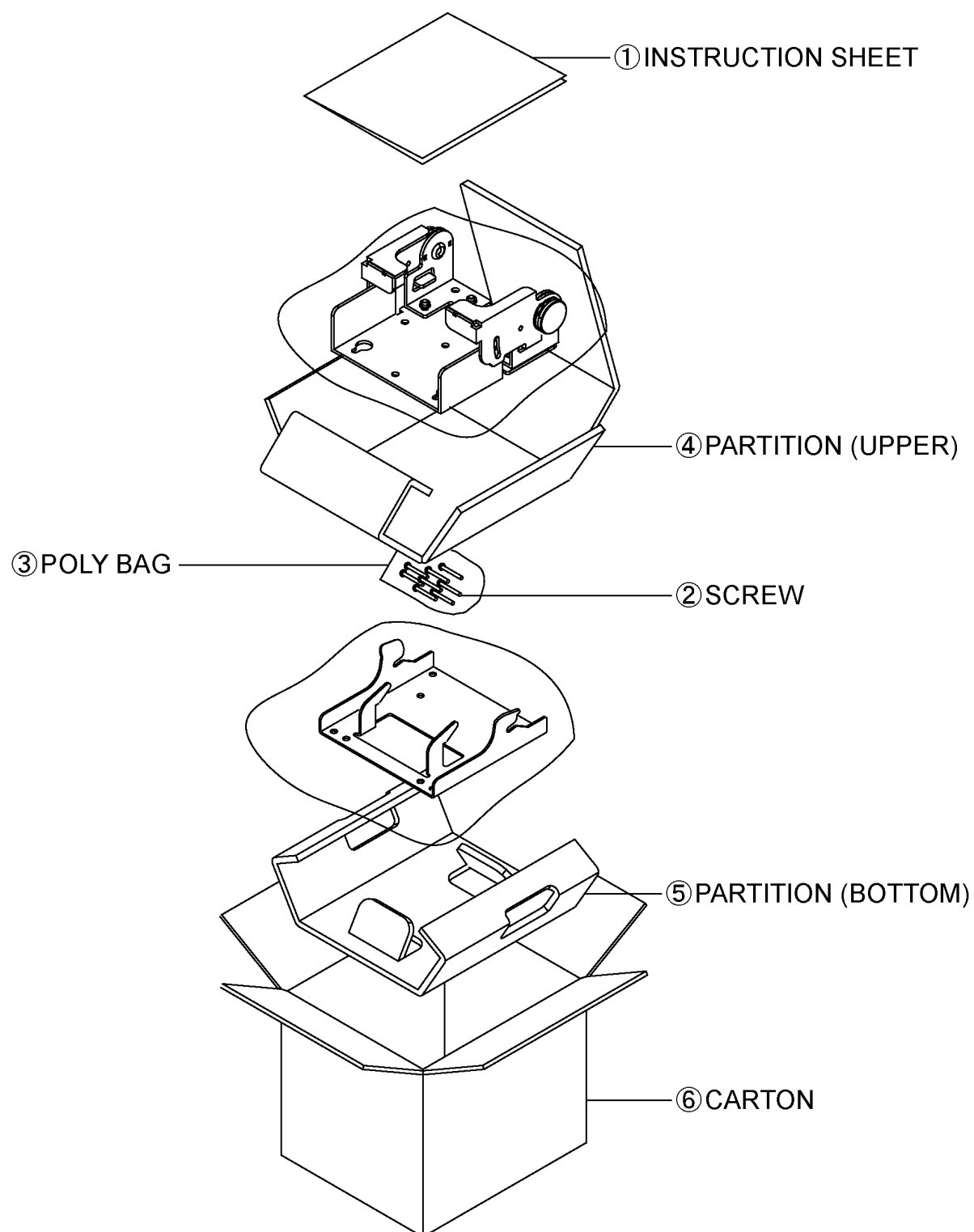


3 Replacement Parts List

3.1. Parts List

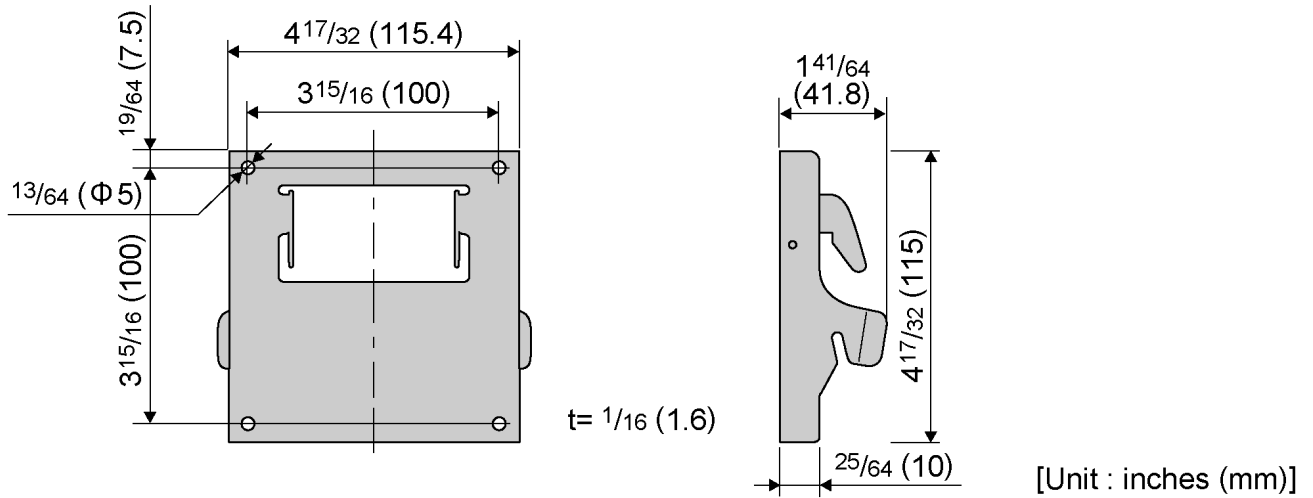
Ref. No.	Part No.	Part Name & Description	Pcs	
1	TQZH707	INSTRUCTION SHEET (ENGLISH)	1	
1	TQZH708	INSTRUCTION SHEET (FRENCH)	1	
1	TQZH709	INSTRUCTION SHEET (CHINESE)	1	
1	TQZJ219	INSTRUCTION SHEET (RUSSIA)	1	
1	TQZJ220	INSTRUCTION SHEET (UKRAINE)	1	
1	TQZJ221	INSTRUCTION SHEET (KAZAKHSTAN)	1	
1	TQZJ364	INSTRUCTION SHEET (GERMANY)	1	
2	XYN4+F12J	SCREW	8	
3	TPEH289	POLY BAG	1	
4	TPDF1572	PARTITION (UPPER)	1	
5	TPDF1573	PARTITION (BOTTOM)	1	
6	TPCB90601	CARTON	1	

3.2. Packing summary

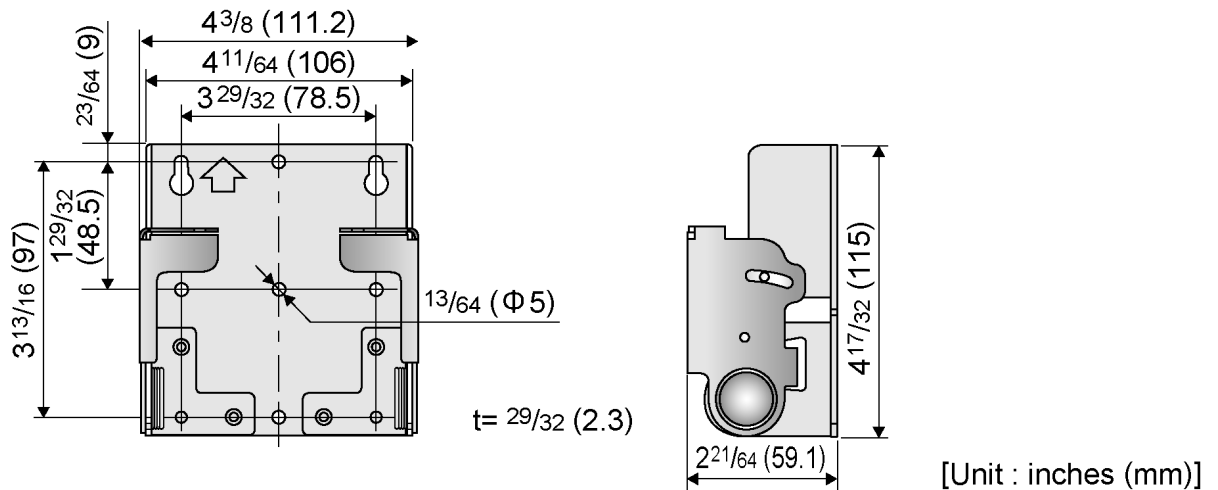


4 External dimensions drawing

4.1. Wall-hanging bracket A (Main unit side)



4.2. Wall-hanging bracket B (Wall side)



4.3. Overall assembly

